An Introduction to Multiplication

workbook

Name:

Date:

Introduction to Multiplication

Vocabulary:

- Multiplication- an operation that joins equal groups together.
- Factors- the numbers you are multiplying together.
- Product- the answer you get when you multiply two factors together.

Step 1: Multiplying with 0

*Remember- anytime one or both factors in the problem is a O, the product or answer is always 0. This is called the "Zero Property of Multiplication."

Example: $0 \times 0 = 0$

You are multiplying a group of 0 objects 0 times.

 $0 \times 3 = 0$ $3 \times 0 = 0$

You are multiplying a group of 0 objects 3 times.

Hint

Multiplication is the same thing is adding over and over again. So $3 \times 0 = 0$ is the same as:

$$0 + 0 + 0 = 0$$

This shows how multiplying by 3 is the same as adding a number 3 times.

Complete the following problems:

$$6 \times 0 =$$
 or $0 + 0 + 0 + 0 + 0 + 0 =$

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More practice with O's

Complete the following multiplication problems with 0.

3)
$$78 \times 0 =$$
 _____ 6) $0 \times 0 =$ _____

Complete the un-shaded part of the multiplication table below.

	0	1	2	3	4	5	6	7	8	9	10
0	0	0									
1											
2											
3											
4											
5											
6											
7											
8											
9											
10											

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Step 2: Multiplying with 1's

*Remember - anytime 1 is a factor, the product or answer is always the same number as the other factor. This is called the "Identity Property of Multiplication."

Example:

$$1 \times 7 = 7$$

You have seven groups of 1. For instance, if you have 7 plates and each plate has 1 cookie on it, you have a total of 7 cookies.















This is also the same as:

$$1 + 1 + 1 + 1 + 1 + 1 + 1 = 7$$

Multiplying 1×7 is also the same as adding 1, 7 times.

Practice:

Complete the following problems.

$$6 \times 1 =$$
 or $1 + 1 + 1 + 1 + 1 + 1 =$

$$_{---}$$
 x 1 = 3 or

$$___$$
 x 1 = 3 or 1 + 1 + 1 = $___$

$$1 \times 4 =$$

$$1 \times 4 =$$
 ____ or ___ + ___ + ___ = 4

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Practice:

Complete the following problems

4.
$$0 \times 1 =$$

Complete the un-shaded part of the multiplication table:

	0	1	2	3	4	5	6	7	8	9	10
0	0	0									
1		1	2								
2											
3											
4											
5											
6											
7											
8											
9											
10											

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Steps 1-2 Quiz

$$7.1 \times 0 =$$

Draw lines to match the following terms.

a.
$$1 \times 5 = 5$$

c.
$$(5) \times (5) = 25$$

4. Identity property of d.
$$3 \times 0 = 0$$
 multiplication

d.
$$3 \times 0 = 0$$

Score: ____/14 ____%